STATEMENT OF BASIS (Al No. 88364)

for draft Louisiana Pollutant Discharge Elimination System permit No. LA0086096 to discharge to waters of the State of Louisiana.

THE APPLICANT IS: CGB Marine Services

St. James - Convent Facility - Mile 164

P.O. Box 1390 LaPlace, LA 70069

ISSUING OFFICE:

Louisiana Department of Environmental Quality (LDEQ)

Office of Environmental Services

Post Office Box 4313

Baton Rouge, Louisiana 70821-4313

PREPARED BY:

Yvonne Baker

DATE PREPARED: July 2, 2007

PERMIT STATUS 1.

A. Reason For Permit Action:

Permit reissuance of an Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5year term.

B. NPDES permit -

NPDES permit effective date: N/A

NPDES permit expiration date: N/A

EPA has not retained enforcement authority.

C. LPDES permits -

LPDES permit effective date: November 1, 2002 LPDES permit expiration date: October 31, 2007

D. Date Application Received: May 3, 2007

FACILITY INFORMATION 2.

A. FACILITY TYPE/ACTIVITY - barge cleaning and repair facility

CGB Marine Services, St. James - Convent Facility - Mile 164 is an existing barge cleaning and repair facility. After unloading of product at area facilities, the transportation barges are swept and the dust and small amount of particles remain in the barge are removed by washing with water taken directly from the Mississippi River by means of 2" to 3" pumps. The water containing the residual dust and particles is subsequently pumped back into the river at the point of intake.

B. FEE RATE

1. Fee Rating Facility Type: minor

2. Complexity Type: II

3. Wastewater Type: II

4. SIC code: 4491 and 3731

C. LOCATION - River Mile 164 M.A.H.P. on the East Bank of the Mississippi River near

Convent, St. James Parish

Latitude 30 04' 12", Longitude 90 53' 44"

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3. OUTFALL INFORMATION

Outfall 001

Discharge Type: dry commodity barge washwater from hopper barges

Treatment: none

Location: at the point of discharge from the barge being washed

Flow: intermittent

Discharge Route: to the Mississippi River

Outfall 002

Discharge Type: coal and coke barge washwater from hopper barges

Treatment: none

Location: at the point of discharge from the barge being washed

Flow: intermittent

Discharge Route: to the Mississippi River

Outfall 003

Discharge Type: treated sanitary wastewater from the office building

Treatment: activated sludge STP

Location: at the point of discharge from the STP prior to mixing with other waters

Flow: 500 GPD

Discharge Route: to the Mississippi River

Outfall 04A

Discharge Type: incoming ballast and void water from customer barges

Treatment: none

Location: at the point of discharge from the customer barge wing/void tanks

Flow: intermittent

Discharge Route: to the Mississippi River

Outfall 04B

Discharge Type: maintenance ballast, void water, and dry dock ballast water

Treatment: none

Location: at the point of discharge from the work barge wing/void tanks or dry dock

Flow: intermittent

Discharge Route: to the Mississippi River

Outfall 005

Discharge Type: treated sanitary wastewater from the dock

Treatment: activated sludge STP

Location: at the point of discharge from the STP prior to mixing with other waters

Flow: 400 GPD

Discharge Route: to the Mississippi River

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4. RECEIVING WATERS

STREAM - Mississippi River

BASIN AND SEGMENT - Mississippi River Basin, Segment 070301

DESIGNATED USES - a. primary contact recreation

b. secondary contact recreation c. propagation of fish and wildlife

d. drinking water supply

5. TMDL STATUS

The discharges from CGB Marine Services are to the Mississippi River, Subsegment 070301 of the Mississippi River Basin. Subsegment 070301 is not listed on LDEQ's Final 2004 303(d) List as impaired, and to date no TMDL's have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

PROPOSED EFFLUENT LIMITS 6.

BASIS - See Rationale below.

There were no changes from the previous permit.

7. COMPLIANCE HISTORY/COMMENTS

- 1. WQMD An inspection on March 8, 2006 noted the following: the facility did not take samples of Outfall 003 and 005 in 2005 and Outfall 005 has been removed. All other areas were found to be satisfactory.
- 2. DMR Review/Excursions A DMR review of years 2005 and 2006 found no exceedances in permit limitations. The facility did not sample Outfall 003 in 2005.

EXISTING EFFLUENT LIMITS 8.

Outfall 001: dry commodity barge washwater

Based on BPJ and on permits for similar facilities, no effluent limitations are established for washwaters from barges previously containing dry commodities including: dirt, mud, wood, sand, steel slag, and crushed rocks. Best Management Practices (BMPs) for barge operations are listed in Part 11.

Outfall 002: coal and coke barge washwater

Pollutant	Monthly Average	Daily Maximum	Frequency
Flow	Report	Report	1/week
TSS	Report	Report	1/month
COD	250 mg/L	400 mg/L	1/week
pH Min/Max Values	6.0 (min)	9.0 (max)	1/week

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Outfall 003: treated sanitary wastewater from the office

Pollutant	Monthly Average	Weekly Average	Frequency
Flow		Report	1/6 months
BOD5		45 mg/L	1/6 months
TSS		45 mg/L	1/6 months
Fecal Coliform Colonies/100 ml		400	1/6 months
pH Min/Max Values	6.0 (min)	9.0 (max)	1/6 months

Outfall 04A: incoming ballast and void water from customer barges
Outfall 04B: maintenance ballast and void water from work, treatment, spar, or office barges

Pollutant	Monthly Average	Daily Maximum	Frequency
Flow	Report	Report	1/week
COD		250 mg/L	1/week
Oil & Grease		15 mg/L	1/week
pH Min/Max Values	6.0 (min)	9.0 (max)	1/week

Sampling for Outfall 04B is only required if a visible oil sheen is present.

The measurement frequency for Outfall 04B for the discharge of maintenance ballast water shall be 1/month whenever sampling is required instead of 1/week as stated above.

Outfall 005: treated sanitary wastewater from the dock

Pollutant	Monthly Average	Weekly Average	Frequency
Flow		Report	1/6 months
BOD5		45 mg/L	1/6 months
TSS		45 mg/L	1/6 months
Fecal Coliform		400	1/6 months
Colonies/100 ml			
pH Min/Max Values	6.0 (min)	9.0 (max)	1/6 months

9. ENDANGERED SPECIES

The receiving waterbody, Subsegment 070301 of the Mississippi River Basin, has been identified by the U.S. Fish and Wildlife Service (FWS) as habitat for the Pallid Sturgeon and migratory waterfowl, which are listed as an endangered species. LDEQ has not submitted this draft permit to the FWS for review in accordance with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). As set forth in the Memorandum of Understanding between the LDEQ and the FWS, and based on information provided by the FWS, LDEQ has determined that the issuance of the LPDES permit is not likely to have an adverse effect upon the Pallid Sturgeon and migratory waterfowl. Effluent limitations are established in the permit to ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat. The more stringent of technology and water quality based limits (as applicable) have been applied to ensure maximum protection of the receiving water.

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10. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

11. TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a permit for the discharge described in the application.

12. PUBLIC NOTICES

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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Rationale for CGB Marine Services

1. Outfall 001: dry commodity barge washwater from hopper barges

Based on BPJ and on permits for similar facilities, no effluent limitations are established for washwaters from barges previously containing dry commodities including: Aggregate, Alumina, Aluminum hydrate, Ammonium phosphates, Anode butts, Barite, Bauxite, Cement, Clay ore, Copper, Copper tin oxide, Dredged spoil, Dunnage, Ferrite magnesium, Fiberglass dust from barge cover repairs, Fluorspar, Fly ash, General fertilizers, Glass, Grain products, Gypsum, Hard grain, Iron ore, Lime, Limestone/rock, Magnealte, Magnesite, Meal, Nitrates (calcined and non-calcined), Ore products, Pellets, Phosphates, Rubber tires, Salt, Sand, Scrap Iron/steel, Selestite ore, Slag, Soda ash, Spodumene, Sugar and glucose products, Sulfates (ferrous/ammonium), Talc and clay products, Timber / wood products, Urea, Wire and carbon rods, Wood chips. Best Management Practices (BMPs) for barge operations are listed in Part II.

Outfall 002: coal and coke barge washwater from hopper barges

Pollutant	<u>Limitation</u> Mthly Avg:Daily Max (mg/l)	<u>Reference</u>
Flow-MGD	Report:Report	LAC 33:IX.2701.I.1.b
COD	250:400	Similar Discharges; BPJ
TSS	Report:Report	Similar Discharges; BPJ
pН	6.0 - 9.0 s.u.	Similar Discharges; BPJ

BPJ Best Professional Judgment

Treatment: none

Monitoring Frequency: TSS shall be observed once per month and Flow, COD and pH shall be observed once per week at the point of discharge from the barge being washed.

Limits Justification: Limits and Monitoring Frequency are based on current guidance for similar discharges from other facilities.

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3. Outfall 003: treated sanitary wastewater from the office

Pollutant	Limitation Mo. Avg: Weekly Avg (mg/l)	Reference	
Flow (GPD) BOD	: Report :45 mg/l	Similar discharges * (BPJ)	
Fecal Coliform Colonies/100 ml	:400 mg/l	Similar discharges * (BPJ)	
TSS	:45 mg/l	Similar discharges * (BPJ)	
pН	6.0 - 9.0 su	Similar discharges * (BPJ)	

Treatment: package treatment plant

Monitoring Frequency: Semiannually for all parameters at the point of discharge from the STP prior to mixing with waters of the state.

Limits Justification: Limits and monitoring frequencies are based on current guidance for similar discharges from other facilities.

4. Outfall 04A: incoming ballast and void water from customer barges
Outfall 04B: maintenance ballast, void water and dry dock ballast water

<u>Pollutant</u>	<u>Limitation</u> Mthly Avg:Daily Max (mg/l)	Reference
Flow-MGD	Report:Report	LAC 33:1X.2701.I.1.b
COD	:250	Similar Discharges; BPJ
Oil and Grease	:15	Similar Discharges; BPJ
рН	6.0 - 9.0 s.u.	Similar Discharges; BPJ

BPJ Best Professional Judgment

Treatment: none

Monitoring Frequency: Flow, COD, Oil & Grease and pH shall be observed once per week at the point of discharge from the incoming customer barge/vessel.

Limits Justification: Limits and Monitoring Frequency are based on current guidance for similar discharges from other facilities.

^{*}The measurement frequency for Outfall 04B for the discharge of maintenance ballast, void water, and dry dock ballast water shall be 1/month whenever sampling is required.

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3. Outfall 003: treated sanitary wastewater from the office

Pollutant	Limitation Mo. Avg: Weekly Avg (mg/l)	Reference	
Flow (GPD) BOD Fecal Coliform	: Report :45 mg/l :400 mg/l	Similar discharges (BPJ) Similar discharges (BPJ)	
Colonies/100 ml TSS pH	:45 mg/l 6.0 - 9.0 su	Similar discharges (BPJ) Similar discharges (BPJ)	

Treatment: package treatment plant

Monitoring Frequency: Semiannually for all parameters at the point of discharge from the STP prior to mixing with waters of the state.

Limits Justification: Limits and monitoring frequencies are based on current guidance for similar discharges from other facilities.

4. Outfall 04A: incoming ballast and void water from customer barges
Outfall 04B: maintenance ballast, void water and dry dock ballast water

<u>Pollutant</u>	<u>Limitation</u> Mthly Avg:Daily Max (mg/l)	Reference
Flow-MGD	Report:Report	LAC 33:IX.2701.I.1.b
COD	:250	Similar Discharges; BPJ
Oil and Grease	:15	Similar Discharges; BPJ
pH	6.0 - 9.0 s.u.	Similar Discharges; BPJ

BPJ Best Professional Judgment

Treatment: none

Monitoring Frequency: Flow, COD, Oil & Grease and pH shall be observed once per week at the point of discharge from the incoming customer barge/vessel.

*The measurement frequency for Outfall 04B for the discharge of maintenance ballast, void water, and dry dock ballast water shall be 1/month whenever sampling is required.

Limits Justification: Limits and Monitoring Frequency are based on current guidance for similar discharges from other facilities.

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Outfall 005: treated sanitary wastewater from the dock

<u>Pollutant</u>	Limitation Mo. Avg: Weekly Avg (mg/l)	Reference
Flow (GPD)	: Report	
BOD	:45 mg/l	Similar discharges (BPJ)
Fecal Coliform	:400 mg/l	Similar discharges (BPJ)
Colonies/100 ml	_	
TSS	:45 mg/l	Similar discharges (BPJ)
рН	6.0 - 9.0 su	Similar discharges (BPJ)
_		

Treatment: package treatment plant

Monitoring Frequency: Semiannually for all parameters at the point of discharge from the STP prior to mixing with waters of the state.

Limits Justification: Limits and monitoring frequencies are based on current guidance for similar discharges from other facilities.

This facility is not subject to Effluent Limitations Guidelines for Transportation Equipment Cleaning, 40 CFR Part 442, because, in accordance with 40 CFR 442.1.a, "this part applies to discharges resulting from cleaning the interior of tanks used to transport chemical, petroleum or food grade cargos." This facility does not clean tanks. Only open top hopper barges and ships are cleaned.

Storm Water Pollution Prevention Plan (SWP3) Requirement

A SWP3 is included in the permit because in accordance with LAC 33:IX.2511.A.1, storm water discharges shall not be required to obtain an LPDES permit "... except... discharges associated with industrial activity." In accordance with LAC 33:IX.2511.B.14.a-k, facilities classified as SIC code 4491 and 3731 are considered to have storm water discharges associated with industrial activity.

The SWP3 shall be prepared, implemented, and maintained within six(6) months of the effective date of the final permit. The plan should identify potential sources of storm water pollution and ensure the implementation of practices to prevent and reduce pollutants in storm water discharges associated with industrial activity at the facility (see Part II of the permit).